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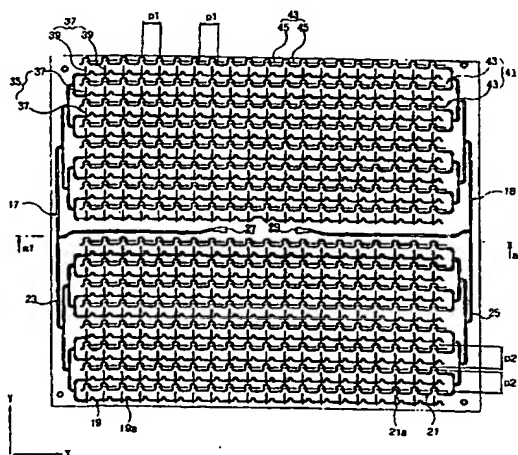
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(54) Title: **LEAKY-WAVE DUAL POLARIZED SLOT TYPE ANTENNA**



(57) Abstract: Disclosed is a leaky-wave dual polarized slot type antenna, including: first and second feeding circuit sections comprised of N-first strip lines and N-second strip lines with a loop every first period along the X-axis on the first dielectric layer and a second period along the Y-axis, in which the N-first strip lines and the N-second strip lines are parallel to each other being alternate, and each length of L_{s1} and L_{s2} for the first period satisfies the equation of $L_{s1} = \lambda/4$, $L_{s2} = \lambda/4$, first and second multi-channel dividers formed at once and the other sides of the first dielectric layer, to connect the N-first strip lines and the N-second strip lines parallel with each other; and first and second central ports formed in the opposite direction of the cavity, each of the feeding circuit sections being connected to the first and second multi-channel dividers; and first and second slot sections being formed by patterning the second shielding layer, in which M-first and M-second slots are arrayed along the direction of the X-axis and each of the first and second slots forms N-row first and N-row second slot arrays, respectively, which cross the first and second strip lines for each, the first slot and the second slot being orthogonal to each other.

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